

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1025077

Luminaire Tested: S124DIP-B1195D1205UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025077
REPORT IS A COMBINATION OF REPORTS P995482 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D1205UB27-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

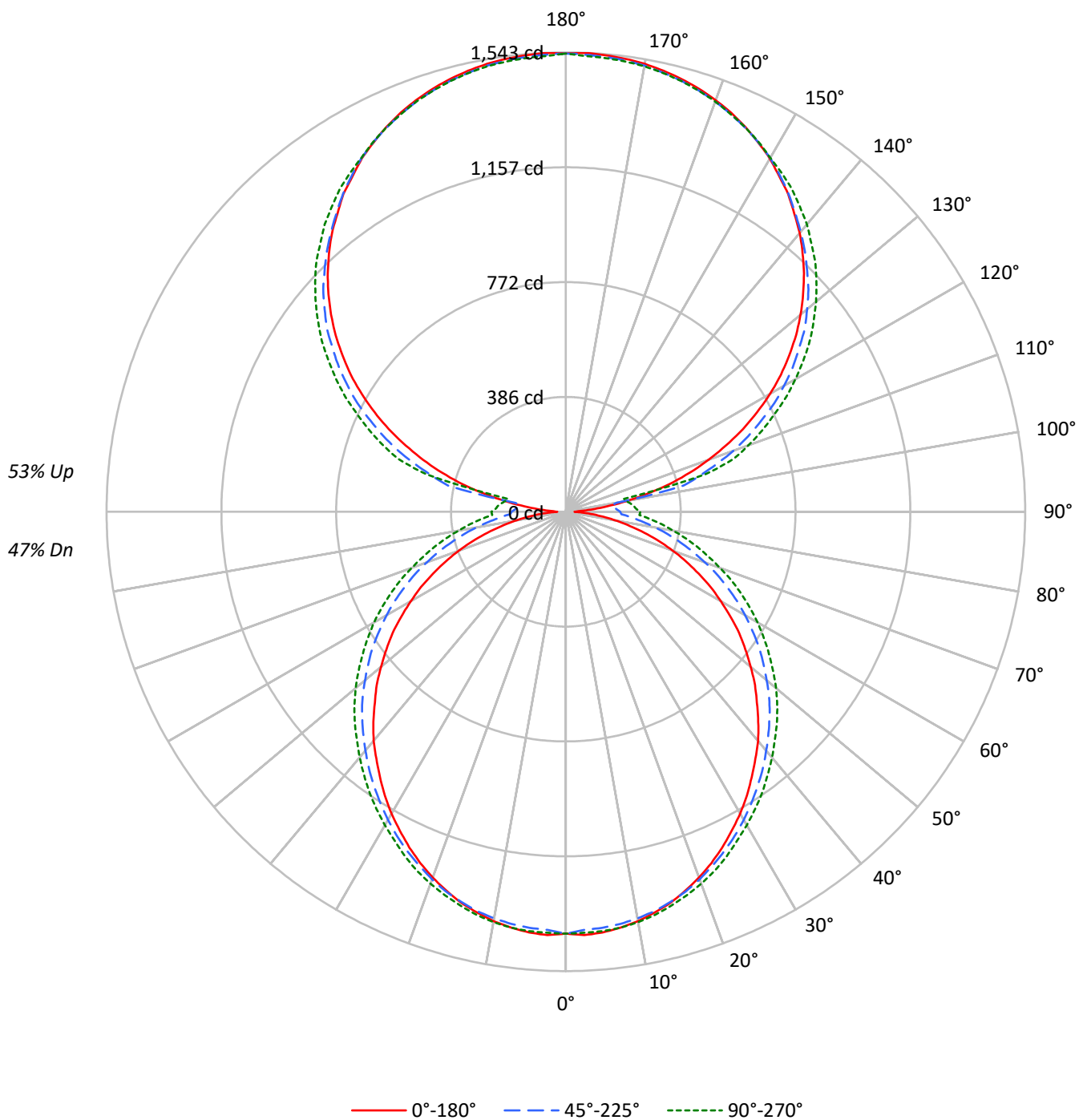
Lumens per Lamp: N/A
Luminaire Lumens: 9597.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53			47
1	96	91	87	83	88	84	80	77	70	67	65	57	55	54	45	44	43			37
2	87	79	73	67	80	73	67	62	61	57	53	50	47	44	39	37	35			30
3	79	69	62	56	72	64	57	52	53	48	44	44	40	37	34	32	30			25
4	72	61	53	47	66	56	49	43	47	42	37	39	34	31	31	28	25			21
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22			18
6	61	49	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19			16
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	23	19	17			14
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	17	15			13
9	48	36	28	23	44	33	27	22	28	23	19	24	19	16	19	16	13			11
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	15	12			10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11555	11555	11555
5°	11586	11254	11274
10°	11511	11032	11000
15°	11403	10783	10692
20°	11244	10513	10393
25°	11064	10216	10070
30°	10869	9922	9740
35°	10649	9621	9447
40°	10472	9331	9144
45°	10211	9060	8875
50°	9988	8752	8592
55°	9758	8456	8266
60°	9401	8086	7959
65°	9008	7688	7590
70°	8531	7233	7163
75°	7864	6726	6757
80°	7115	6210	6331
85°	6120	5691	5986

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10211 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	1.4
10°-20°	384.7	4.0
20°-30°	581.6	6.1
30°-40°	703.7	7.3
40°-50°	743.9	7.8
50°-60°	700.1	7.3
60°-70°	581.0	6.1
70°-80°	407.7	4.2
80°-90°	233.0	2.4
90°-100°	187.9	2.0
100°-110°	437.8	4.6
110°-120°	710.5	7.4
120°-130°	854.0	8.9
130°-140°	889.2	9.3
140°-150°	819.2	8.5
150°-160°	658.0	6.9
160°-170°	424.3	4.4
170°-180°	146.2	1.5
0°-30°	1100.6	11.5
0°-40°	1804.2	18.8
0°-60°	3248.2	33.8
0°-90°	4469.9	46.6
90°-120°	1336.2	13.9
90°-150°	3898.6	40.6
90°-180°	5127.0	53.4
0°-180°	9597.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1418	1414	1403	1415	1414	135
15°	1360	1361	1357	1371	1369	383
25°	1244	1254	1258	1276	1277	573
35°	1088	1108	1123	1146	1150	682
45°	908	938	968	995	1003	701
55°	711	744	792	824	833	633
65°	492	543	597	636	649	488
75°	273	332	398	443	457	290
85°	84	151	222	270	286	88
90°	29	105	182	235	250	21
95°	84	97	163	213	229	94
105°	361	399	464	514	485	379
115°	656	674	724	761	772	647
125°	916	919	956	990	1000	818
135°	1131	1130	1146	1174	1186	872
145°	1302	1304	1304	1315	1324	814
155°	1426	1428	1424	1429	1425	658
165°	1505	1499	1499	1508	1498	425
175°	1539	1532	1533	1544	1530	147
180°	1539	1539	1539	1539	1539	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.0	1417.0	1417.0	1417.0	1417.0
2.5°	1423.3	1418.5	1405.9	1417.0	1415.4
5°	1418.5	1413.8	1402.7	1415.4	1413.8
7.5°	1409.0	1405.9	1396.3	1410.6	1409.0
10°	1396.3	1394.7	1386.8	1401.1	1399.5
12.5°	1378.9	1378.9	1374.1	1386.8	1386.8
15°	1359.8	1361.4	1356.7	1370.9	1369.4
17.5°	1334.5	1339.2	1337.6	1351.9	1350.3
20°	1307.5	1312.2	1313.8	1329.7	1329.7
22.5°	1277.3	1283.7	1286.8	1302.7	1305.9
25°	1244.0	1253.5	1258.3	1275.7	1277.3
27.5°	1207.5	1221.8	1228.1	1244.0	1245.6
30°	1171.0	1183.7	1194.8	1212.3	1215.4
32.5°	1131.3	1147.2	1159.9	1180.5	1183.7
35°	1088.5	1107.5	1123.4	1145.6	1150.4
37.5°	1045.7	1067.9	1086.9	1109.1	1113.9
40°	1004.4	1025.0	1047.2	1071.1	1077.4
42.5°	956.8	980.6	1007.6	1034.6	1039.3
45°	907.6	937.8	967.9	994.9	1002.8
47.5°	861.6	891.7	926.7	953.6	963.2
50°	810.8	845.7	880.6	912.4	921.9
52.5°	760.0	795.0	836.2	867.9	877.5
55°	710.9	744.2	791.8	823.5	833.0
57.5°	655.3	696.6	742.6	780.7	788.6
60°	601.4	642.6	695.0	731.5	744.2
62.5°	549.0	595.0	647.4	683.9	696.6
65°	491.9	542.7	596.6	636.3	649.0
67.5°	437.9	491.9	549.0	588.7	601.4
70°	382.4	436.4	496.7	539.5	550.6
72.5°	328.5	384.0	449.0	490.3	503.0
75°	272.9	331.6	398.3	442.7	457.0
77.5°	220.6	282.4	352.3	396.7	412.6
80°	173.0	236.4	306.2	353.8	366.5
82.5°	125.4	192.0	261.8	311.0	325.3
85°	84.1	150.7	222.1	269.7	285.6
87.5°	52.4	117.4	187.2	233.3	247.5
90°	28.9	105.0	182.4	235.3	250.3
92.5°	41.1	94.3	171.8	223.1	235.8
95°	83.9	97.2	163.3	213.1	228.6
97.5°	139.9	211.3	155.4	202.5	217.8
100°	206.3	268.2	171.3	194.5	206.7
102.5°	282.3	331.0	405.1	187.3	200.0
105°	360.8	399.4	463.9	513.9	485.2
107.5°	435.7	466.1	529.7	575.1	590.8
110°	510.0	535.7	598.1	636.9	653.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	582.1	608.0	662.7	696.5	713.8
115°	656.5	674.2	723.9	761.1	772.2
117.5°	724.4	738.5	789.6	821.8	834.5
120°	791.9	801.3	846.1	880.1	890.5
122.5°	856.4	858.7	903.9	936.7	945.5
125°	915.8	918.9	956.2	989.8	1000.5
127.5°	974.5	974.1	1011.6	1039.0	1049.0
130°	1029.4	1028.9	1057.8	1087.5	1097.0
132.5°	1081.2	1081.9	1105.5	1133.7	1142.0
135°	1131.4	1130.3	1146.0	1173.7	1185.5
137.5°	1177.5	1175.9	1187.9	1214.0	1220.9
140°	1222.4	1223.1	1227.0	1251.0	1260.1
142.5°	1261.0	1265.7	1265.2	1285.0	1291.3
145°	1302.5	1304.3	1304.3	1315.0	1323.7
147.5°	1334.7	1340.0	1338.9	1341.6	1349.1
150°	1370.4	1373.4	1372.3	1372.3	1373.4
152.5°	1398.7	1402.2	1399.9	1402.2	1401.1
155°	1426.4	1427.5	1424.1	1428.7	1425.2
157.5°	1450.6	1450.6	1445.9	1451.7	1445.9
160°	1471.3	1467.8	1466.7	1473.6	1466.7
162.5°	1489.7	1485.1	1483.9	1490.8	1482.8
165°	1504.7	1498.9	1498.9	1508.1	1497.8
167.5°	1517.3	1511.6	1510.4	1520.8	1509.3
170°	1527.7	1520.8	1521.9	1531.1	1519.6
172.5°	1534.6	1527.7	1528.8	1538.0	1525.4
175°	1539.2	1532.3	1533.4	1543.8	1530.0
177.5°	1542.7	1534.6	1536.9	1546.1	1532.3
180°	1539.2	1539.2	1539.2	1539.2	1539.2

(END OF REPORT)